

MD ROUTE 85 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

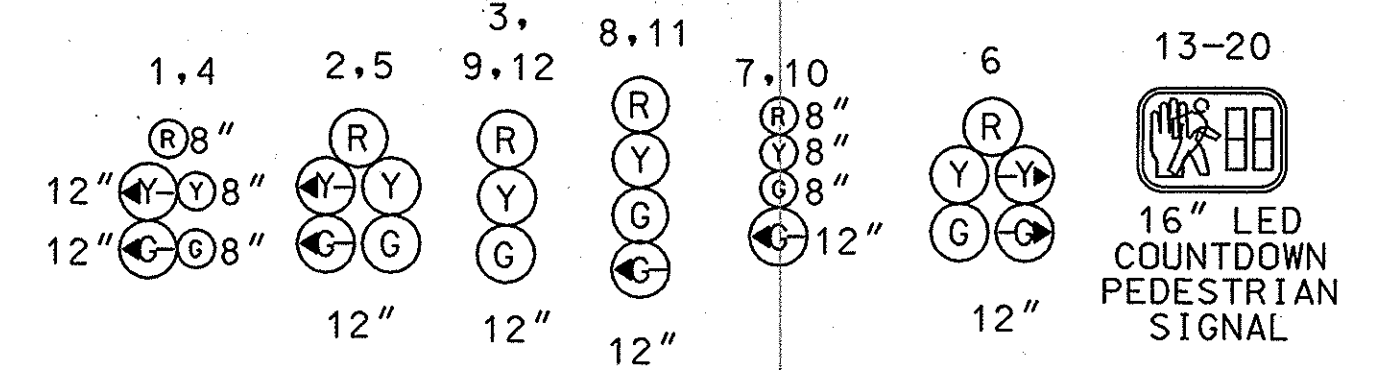
CONSTRUCTION DETAILS

- A. Install a NEMA size "6" ground mounted controller cabinet with all necessary equipment. (Note: 2-4" and 2-2" 90 degree PVC schedule 80 conduit bends).
- B. Install 27' steel pole with 38ft mast arm, traffic and pedestrian pushbutton with R10-4(1) sign, video detection camera and signs. schedule 80, 90 degree, PVC electrical conduit bend in pole base.
- C. Install 27' steel pole with 50ft mast arm, traffic and pedestrian pushbutton with R10-4(1) sign, video detection camera and signs. schedule 80, 90 degree, PVC electrical conduit bend in pole base.
- D. Install 10 ft. breakaway pedestal pole, pushbutton with R10-4(1) sign, and pedestrian signal head. Install 1-3" schedule 80, 90 degree, PVC electrical conduit bend in pole base.
- E. Install electrical handhole.
- F. Install 3", schedule 80, PVC conduit (trenched).
- G. Install 3", schedule 80, PVC conduit (bored).
- H. Install 4", schedule 80, PVC conduit (trenched).
- J. Install 4", schedule 80, PVC conduit (bored).
- K. Install ground mounted sign on 4" X 4" wooden post installed at a 15 degree angle as shown.
- L. Install 4" conduit (trenched) and riser, for power from metered service pedestal (msp) to utility pole. (Note: 1-4" 90 degree PVC schedule 80 conduit bend.)
- M. Install 1-2", schedule 80, PVC conduit (trenched).
- N. Install 2 - 4" schedule 80, PVC conduit (trenched).
- O. Install 200 Amp. metered service pedestal (msp).
- P. Remove existing sign.
- R. Install micro-loop probe (set of 3) with 1000' lead in.
- S. Install micro-loop probe (set of 3) with 500' lead in.
- T. Install 3", schedule 80, PVC interconnect conduit with handhole spaced no more than 200'.
- U. Install 24" white reflective heat applied thermoplastic stopline installed 4' offset from crosswalk as shown.
- V. Install 12" white reflective heat applied thermoplastic crosswalk as shown.
- X. Install Detector Warning Mat to ADA ramp.

GEOMETRIC LEGEND  
- EXISTING  
- PROPOSED

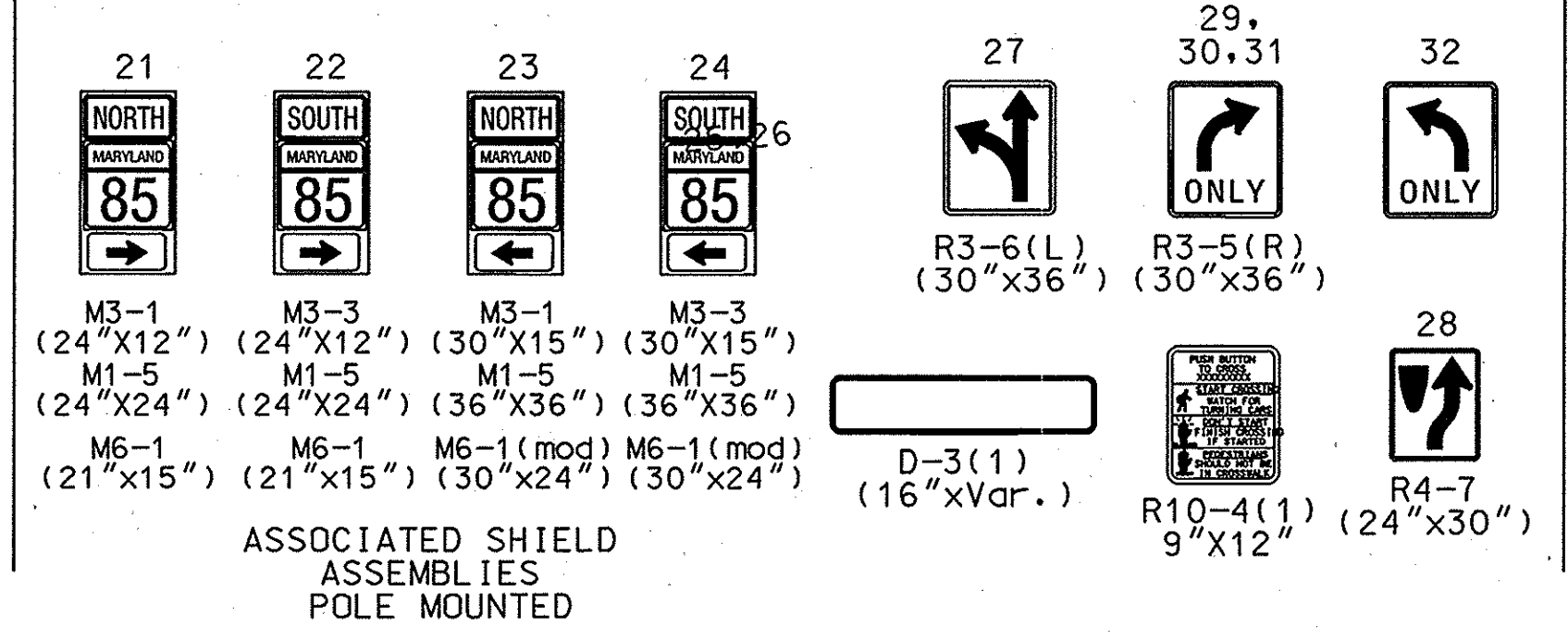
UTILITY LEGEND  
SD - STORM DRAIN  
G - GAS MAIN  
W - WATER MAIN  
S - SEWER MAIN  
E - ELECTRIC CABLES  
A - AERIAL CABLES  
T - TELEPHONE CABLES  
F - FIBER-OPTIC

PROPOSED LED BLACK FACED SIGNALS

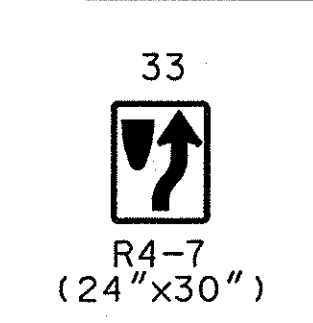


a,b,c,d  
PROPOSED VIDEO DETECTION

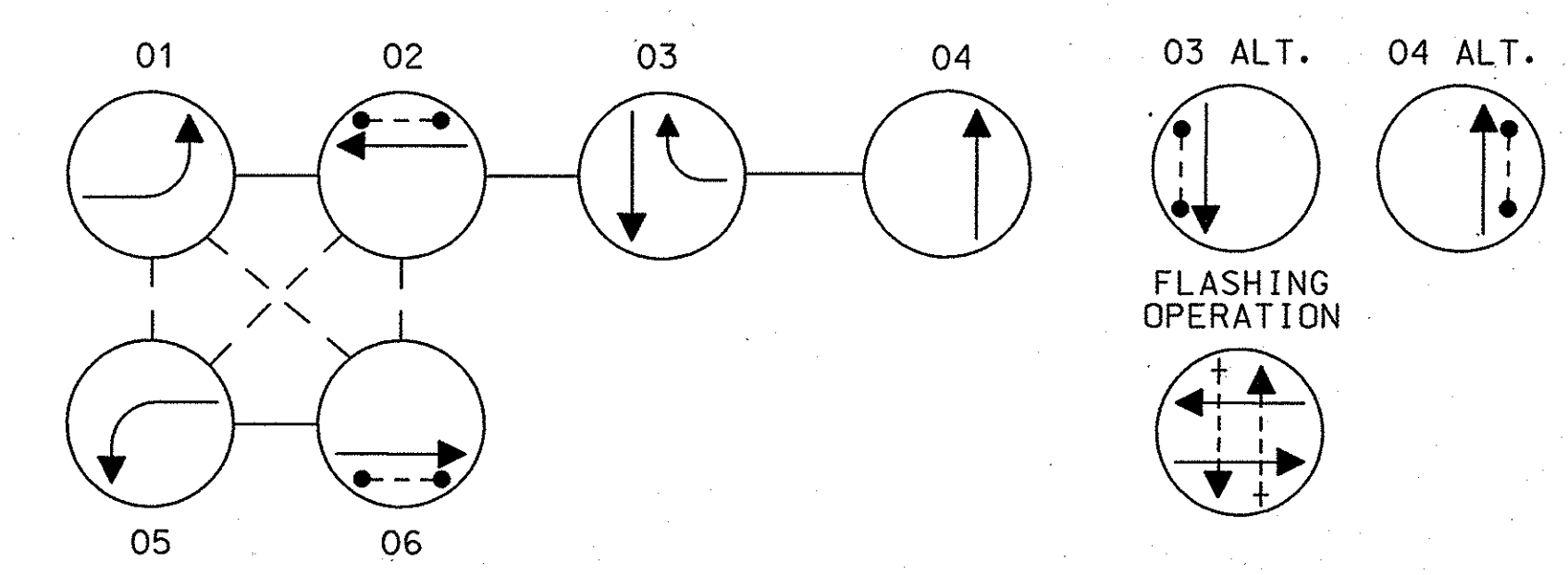
PROPOSED SIGNS



EXISTING SIGNS



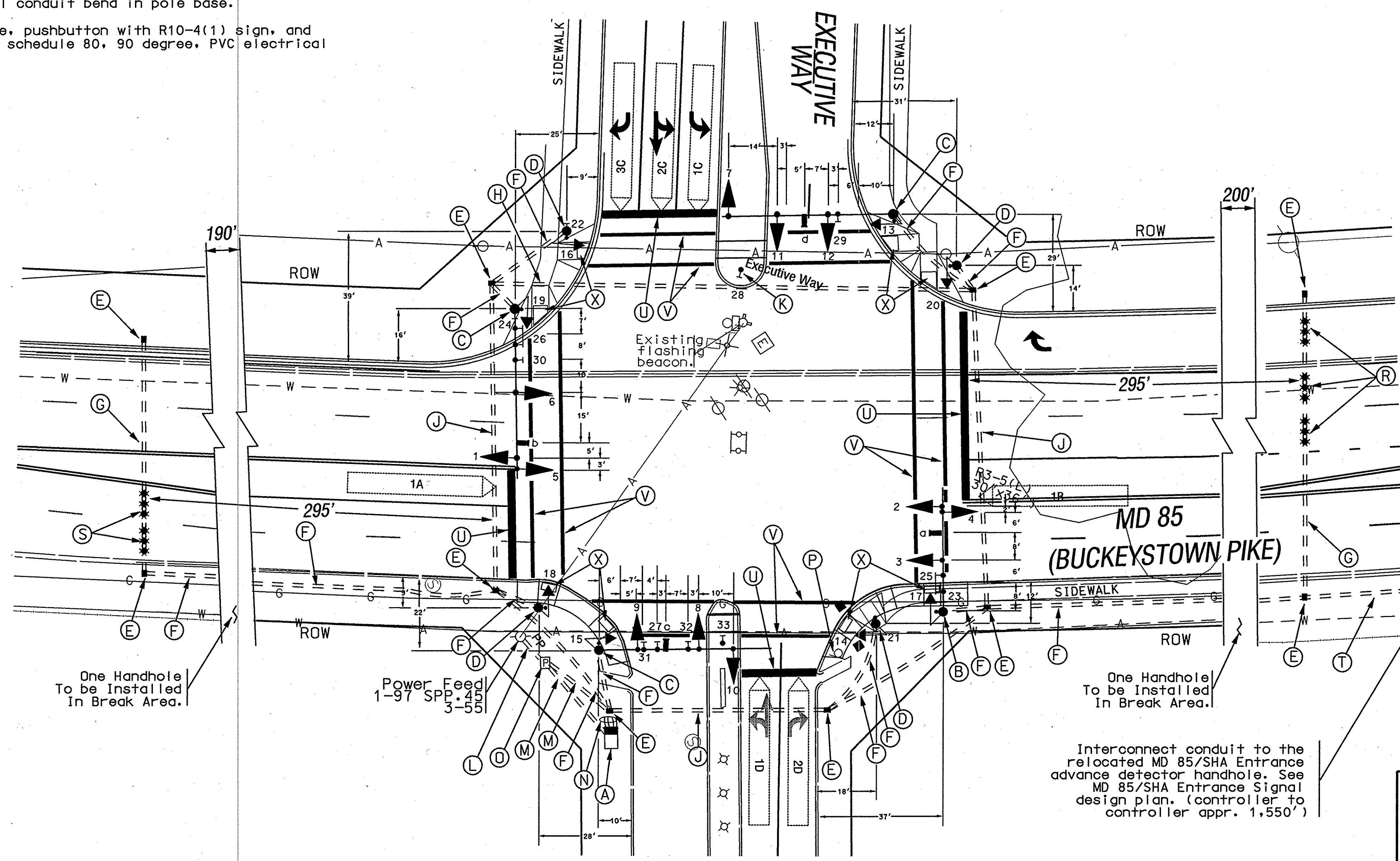
NEMA PHASING



NOTE:  
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

GENERAL NOTES:

- 1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- 2. EXISTING FLASHING BEACON SIGNAL EQUIPMENT (MAST ARM POLE, SIGNS, SIGNAL HEADS, AND FOUNDATION) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED AND DISPOSED OF FROM THE SITE, UNLESS OTHERWISE NOTED. EXISTING SIGNAL POLE FOUNDATION IS TO BE CHIPPED 12" BELOW GRADE AND BACK FILLED. EXISTING HANDBOXES ARE TO BE REMOVED AND CONDUIT ABANDONED IN ACCORDANCE WITH SHA REQUIREMENTS.
- 3. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 4. STRIPING SHOWN IS PER PAVEMENT MARKING AND SIGNING PLAN BY RODGERS CONSULTING.



Interconnect conduit to the relocated MD 85/SHA Entrance advance detector handhole. See MD 85/SHA Entrance Signal design plan. (controller to controller appr. 1,550')

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APPROVALS	
ORIGINAL	
TEAM LEADER	DN
ASST. DIV. CHIEF	
FILE	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
①	GEOMETRIC IMPROVEMENTS TO PROVIDE EASTBOUND LEO TO INTERSECTION. 09/05
②	RELOCATION OF EXISTING MAST ARM & ALL ATTACHED EQUIPMENT. 09/05

**SHA**  
STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNAL MODIFICATION PLAN  
MD 85 (BUCKEYSTOWN PIKE) / EXECUTIVE WAY

1"=20'

SCALE \_\_\_\_\_ DATE 3/13/06 CONTRACT NO. \_\_\_\_\_

DESIGNED BY DPN/PS COUNTY Frederick  
DRAWN BY DPN/LV LOGMILE 10008508.20  
CHECKED BY CT T.I.M.S. NO. H144X  
F.A.P. NO. N/A TOD NO.  
DRAWING NO. TS4122C SHEET NO. 1 OF 2